

ABBREVIATIONS AND ACRONYMS

ACA	attenuation with respect to clean air (or clear air)
ACKS	acknowledgements
ACTS	Advanced Communications Technology Satellite
ACTSPP	ACTS preprocessing program (translates raw beacon data)
AFS	attenuation with respect to free space
AGA	attenuation due to gaseous absorption
APL	Applied Physics Laboratory
APSW	Advanced Communications Technology Satellite (ACTS) Propagation Studies Workshop
APT	ACTS Propagation Terminal
AR	attenuation ratio
ARD	radiometrically derived attenuation
ARS	statistical attenuation ratio
ATM	asynchronous transfer mode
BER	bit error rate
CCIR	(see ITU-R)
CDF	cumulative distribution functions
CHILL	University of Chicago and Illinois Water Survey (radar)
CMU	Carnegie Mellon University
COAG	group of surface weather stations in Colorado
COAGMET	(same as COAG)
COMSTAR	communications satellite
CONSTMM	calibration constant for successive months
CPA	copolarized attenuation
CRG	capacitive rain gauge
CSU	Colorado State University
DAH	Dissanayake, Allnutt, and Haidara (rain attenuation model, also called the USA model)
DRX	data receiving (collection)
Eb/No	energy per bit by noise density ratio
ExCell	exponential cell
FAU	Florida Atlantic University
FD	fade duration
FEC	forward error correction
FS	fade slope
FTS	field test site
GBS	Global Broadcast System

GEO	geostationary Earth orbit
GPS	Global Positioning System
HDFS	high-density fixed services
HDR	high data rate
IEEE	The Institute of Electrical and Electronics Engineers, Inc.
IF	interfade duration
INMARSAT	International Maritime Satellite
IP	internet protocol
ITU-R	International Telecommunications Union—Radiocommunications
JHU	Johns Hopkins University
Kdp	specific differential phase
LBL	Lawrence Berkeley National Laboratory
Ldr	linear depolarization ratio
LEO	low Earth orbit
LeRC	Lewis Research Center (now Glenn Research center at Lewis Field, Cleveland, OH)
LET	link evaluation terminal
LMSS	Land Mobile Satellite System
m.a.s.l.	meters above sea level
MARECS-B2	(International Marine Satellite Consortium satellite)
Mesonet	mesoscale meteorological network of Oklahoma
MPM	Microwave Propagation Model (basically Liebe's atmospheric model)
NCDC	National Climatological Data Center
NGO	nongeostationary Earth orbit
NOAA	National Oceanographic and Atmospheric Administration
NS	network simulator
OU	Oklahoma University (Norman, OK)
PARC	Palo Alto Research Center
PDF	probability density function
R-H	Rice-Holmberg (rain model)
RHI	range height indicator
RHV (%)	cross-correlation coefficient
RMS	root mean square

Satcom	satellite communications
SCTC	Space Communications Technology Center
SRS	Space Research Service
STel	Stanford Telecommunications, Inc., Reston, VA
TBG	tipping bucket gauge
TBRG	tipping bucket rain gauge
T-C	two-component
TCP	transmission control protocol
TDRSS	Telecommunications and Data Relay Satellite System
TEC	total electron content
TSR	transmit and stay resident
UAF	University of Alaska, Fairbanks
UBC	University of British Columbia
UCB	University of California at Berkeley
URSI	The International Union of Radio Science
USAT	ultrasmall-aperture terminal (transportable 36-cm) station
USC/IS:I	University of Southern California's Information Sciences Institute
USF	University of South Florida
UTC	universal time coordinated (Greenwich mean time)
VSAT	very small-aperture terminal
wrt	with respect to
WWV	plug-in card in the ACTS propagation terminal's collection PC, which is used to receive the standard time from Colorado and adjust the PC clock accordingly
XPD	cross-polarization discrimination
Zdr	differential reflectivity
Zhh	horizontal reflectivity